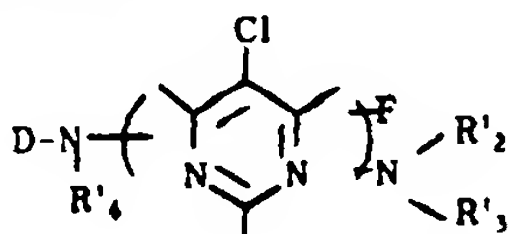


<p>B5-099801/17 A60 E23 F06 BAYER AG 04.10.83-DE-335956 (18.04.85) C07d-239/42 C09b-62/20 D06p-01/38 New reactive dyes contg. chloro-fluoro-pyrimidinyl gp. - for dyeing polyamide, polyurethane and cellulose</p>	<p>FARB 04.10.83 *DE 3335-956-A A(8-E3, 12-S5N, 12-S5P) E(7-D12, 21-D2, 25) F(3-F2, 3-F3, 3-F6, 3-F10, 3-F16) 1 1 5</p>
<p>C85-043136 Reactive dyes of formula (I) are new:</p> <div data-bbox="323 337 834 536"> </div> <p>D = organic dye residue; n = 1-4; B = direct bond or bridging gp. to a C atom in an aromatic carboxylic ring or to a C or N atom in a heterocyclic aromatic ring of D; R = H or opt. substd. 1-4C alkyl; R₁ = H, halo, opt. halo-substd. 1-4C alkyl or 2-4C alkenyl, NO₂, CN, SO₃H, opt. N-substd. carbamoyl or sulpha-moyl or sulphonate ester;</p>	<p>R₂ = H, alkyl (opt. substd. by OH, alkoxy, CN, COOH, halo or CH₂CONH), cycloalkyl, aryl or opt. substd. hetero-cyclyl; R₃ = H, alkyl (opt. substd. as R₂), or R₂ and R₃ together with alkylene, opt. interrupted by O, S, NH or NR. Also new are intermediates of formula (II)</p> <div data-bbox="1240 348 1493 582"> </div> <p>R₈ = H or 1-4C alkyl, opt. substd. by MeO, OH, COOH or SO₃H; and R₉ = H, 1-4C alkyl (opt. substd. as R₈), phenyl (opt. substd. by Me, Et, OMe, OEt, Cl, COOH or SO₃H) or naphthyl substd. by SO₃H.</p> <p>USE (I) are useful for dyeing or printing OH- or N-contg. DE3335956-A+</p>

fibres, e.g. wool, silk, synthetic polyamide or polyurethane or natural or regenerated cellulose.

PREFERRED DYES



D' = sulpho- and/or COOH-contg. residue of mono- or poly-azo, metal complex, anthraquinone, phthalocyanine, formazan, azomethine, nitroaryl, phenazine or stilbene type dyes;

R'₁ = H or Me;

R'₂ = H; and

R'₃ = H; 2-, 3- or 4-sulphophenyl or disulphophenyl.

CLAIMED PREPARATION

2,4,6-Trifluoro-5-R₁-pyrimidine (III) is reacted, in any suitable sequence, with D-B-N(R)H (IV) and HNR₂R₃, opt. with isolation of intermediates.

In a modification, (IV) is replaced by a dye precursor, or e.g. an azo coupler, then this converted to (I) after condensation.

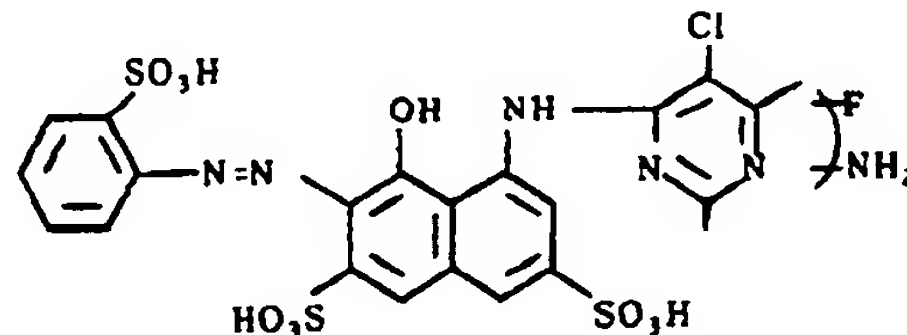
STARTING MATERIALS

(III; R₁ = Cl) is reacted with HNR₂R₃, pref. in an aq. system at pH 6-7, to give (II).

EXAMPLE

65.5 g of 2-(2-sulphophenylazo)-1-hydroxy-8-(2,4-difluoro-5-chloropyrimidin-6-yl)amino-naphthalene-3,6-disulphonic acid (see Example 18 of DE1644171) was dissolved in 600 ml water. 258 NH₃ was added to pH 8.9 and the mixt. reacted at 50°C (maintaining the pH) until t.l.c. showed reaction was complete.

HCL was then added to pH 6.5, the prod. salted out, filtered off, dried and ground to give dye (Ia) which was freely soluble in water and dyed cotton red.



(71pp1251WADwgNo.0/0).

DE3335956-A